

ABSTRACT OF THE DISCLOSURE

Disclosed are a rotor of a line start permanent magnet motor and a manufacturing method thereof. The rotor comprises: a core provided with an axial
5 hole for inserting an shaft and a plurality of penetrated magnet coupling holes formed at a periphery of the axial hole; permanent magnets respectively coupled to the magnet coupling holes of the core; a third end ring provided with magnet paths for respectively passing the permanent magnets and coupled to one side surface of the core; a fourth end ring having the same appearance as the third end
10 ring and coupled to another side surface of the core to be connected with the third end ring; a magnet supporting plate positioned between one side surface of the core and the fourth end ring for preventing the permanent magnets from being separated; and a fixing member inserted into the magnet paths of the third end ring for preventing the permanent magnets from being separated. Accordingly, the
15 structure and the manufacturing process are simplified thus to improve a synchronization performance, thereby enhancing efficiency of the line start permanent magnet motor, reducing a manufacturing cost, and enhancing an assembly productivity.